WBLE-SL ► UECM3463-202206-EZZ ► Quizzes ► 202206UECM34630E4b ► Review of preview									
WBLE-SL F UECM3463	-202206-E22 Quizzes 2022060ECM	3403UE40 P Keview or preview	Update this Quiz						
Info Results Preview Edit									
202206UECM34630E4b									
	Start again								
Review of preview									
Started on	Thursday, 8 September 2022, 11:40 AM	1							
	Thursday, 8 September 2022, 11:40 AN	1							
	Time taken 5 secs 0/8								
	0 out of a maximum of 10 (0 %)								
1 🕏	You fit a Pareto distribution with para	emetes a and $\theta = 90$ to a sample of 280 claim amounts. You are given $\Sigma_{i=1}^{n} \ln(x_i + 90) = 1485.64$. Determine the value of the Bayesian Information Criterion (BIC).							
Marks: 1									
	Answer:	v							
	Make comment or override grade								
	Incorrect Correct answer: 3416.17479								
	Marks for this submission	u: 0/1.							
2 👺	You fit a Gamma distribution to a san	mple of 90 claim amounts. You are given:							
Marks: 1 • The maximum likelihood estimates are $a^{\circ} = 3$ and $\theta^{\circ} = 74.98$.									
	• $\sum x_i = 20244.99$ • $\sum \ln(x_i) = 473.66$								
	Determine the value of the Bayesian	Information Criterion (BLC)							
	Answer:	<u> </u>							
	Make comment or override grade								
	Incorrect								
	Correct answer: 1110.439619 Marks for this submission	. 0/1							
	riarks for this submission	. 0/1.							
	V 5: : 11.6 24.1								
3 👺 Marks: 1	You fit various models for 31 loss obs	servations using maximum likelihood. The fits maximizing the likelihood for a given number of parameters have the following loglikelihoods: Number of parameters Loglikelihood							
Tidikoi 1		1 -141.52							
		2 -140.03							
		4 -130.1							
	5 -108.41								
	If BIC is the value of the Bayesian Information Criterion, and k is the number parameters in the selected models. Find BIC+k.								
	Answer:	<u> </u>							
	Make comment or override grade								
	. and comment of overfide grade								

	Incorrect Correct answer: 239 Marks for this submission: 0/1.
4 👺 Marks: 1	You are given a sample of 5 observations from Pareto(α , θ =1490) distribution: 1,784.62 2,279.43 1,491.06 1,680.98 1,571.95. Determine the value of the Bayesian Information Criterion (BIC)
	Answer:
	Make comment or override grade Incorrect Correct answer: 89.919838 Marks for this submission: 0/1.
5 Marks: 1	 You fit a Pareto distribution to a sample of 150 claim amounts. You are given: The maximum likelihood estimates are a² = 2.0 and θ² = 7.2. Σ ln(x₁+7.2) = 610.54 Determine the value of the Akaike Information Criterion (AIC)
	Answer: Make comment or override grade Incorrect Correct answer: 2274.84 Marks for this submission: 0/1.
6 ☑ Marks: 1	You fit a Gamma distribution to a sample of 100 claim amounts. You are given: • The maximum likelihood estimates are $\hat{a} = 4$ and $\hat{\theta} = 88.86$. • $\sum x_i = 35545.41$ • $\sum \ln(x_i) = 577.67$ Determine the value of the Akaike Information Criterion (AIC)
	Make comment or override grade Incorrect Correct answer: 1286.02 Marks for this submission: 0/1.
7 E Marks: 1	You fit various models for 27 loss observations using maximum likelihood. The fits maximizing the likelihood for a given number of parameters have the following loglikelihoods: Number of parameters Loglikelihood
	Answer:
	Make comment or override grade Incorrect Correct answer: 287 288.62 Marks for this submission: 0/1.
8 🐷	You are given a sample of 10 observations from the following distribution:

Marks: 1		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	2
Determine the valu Answer:	e of the Akaike Information Criterion (AIC)		¬
Make comment or o			
Incorrect Correct answer: 11 Marks for thi s	109.34 s submission: 0/1.		

Moodle Docs for this page

You are logged in as Yong Chin Khian (Logout)

UECM3463-202206-EZZ